

# MOHIT SONI

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## WORK EXPERIENCE

### University of Washington Seattle

Machine Learning Researcher

Seattle, WA

Feb 2022 - Sep 2022

- Mentored by University of Washington Seattle Data Science Professor Sundar Srinivasan
- Collected data through Kaggle datasets & by web-scraping ESPN CricInfo website with Python
- Found probability of Cricket batsman getting out using length/speed/etc. of ball
- Trained and hyperparameter tuned Random Forests & Neural Networks
- Wrote 9-page research paper addressing my approaches and results

### SparkSIP

Machine Learning Intern

Remote

Jun 2022 - Sep 2022

- Classified DNA electrical signatures to their DNA code using Random Forest models, Neural Networks, and SVM
- Presented progress to two University of Washington Seattle Professors using PowerBI
- Wrote in-depth research paper summarizing my methods and results

### Project Sidewalk - Makeability Lab at the University of Washington Seattle

Web Development & Machine Learning Intern

Seattle, WA

Apr 2022 - Sep 2022

- Fixed 15-20 bugs involving JavaScript, Scala, CSS, and HTML
- Managed GitHub repository with a 40-member team
- Performed data cleaning tasks using Excel & Python
- Presented insights from cleaned data to computer vision team
- Presented progress to University of Washington Seattle Professor every week

## SKILLS

Web Development:	Bootstrap, React, Streamlit, EJS, Flask, Node.js, Express.js, Django, SQL, MongoDB
Data Science:	Python, PowerBI, Pandas, Numpy, Tensorflow, Scikit-learn, Matplotlib, Plotly
Additional:	Java, C++, C#, Visual Studio Code, Jupyter Notebooks, Google Colab, Kaggle

## PROJECTS

### Weakness Detector Research Pandas, Numpy, Scikit-learn, PowerBI

<https://tinyurl.com/mrxr95rr>

Cricket application capable of finding weaknesses of cricket players based on past performances using Random Forest ML model with accuracy of 90%

### ML Model Insights App Streamlit, Pandas, Numpy, Matplotlib

<https://algo-insights.streamlit.app/>

Application that allows users to quickly evaluate multiple ML models on an uploaded/chosen dataset both numerically and visually without writing any code

### Blogging Website EJS, Node.js, Express.js, MongoDB

<https://tinyurl.com/4kcxu9xf>

A website that gives users the ability to compose blog posts for themselves, which are stored and can be viewed/edited later each on a separate webpage

## AWARDS

### AP Scholar with Distinction

College Board

Recognized for receiving an average score of above 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams

Jul 2021

### 1st in State for Machine Learning-based Geospatial Design

TSA (Technology Student Association)

Recognized for using maps of Washington State & data regarding the salinity, pollution, etc. of waterways to identify hazardous salmon breeding areas

Mar 2022

### Webmaster State Finalist (Top 10 in State)

TSA (Technology Student Association)

Recognized for creating a website using vanilla HTML, CSS, and JavaScript that advertised the Indian Premier League (Cricket league)

Mar 2022

## EDUCATION

### Tesla STEM High School

Redmond, WA

Unweighted GPA: 3.99/4.00, Weighted GPA: 4.55, SAT: 1560

Sep 2019 - Jun 2023